

JP7330444A2: DEBINDERING METHOD AND PRODUCTION OF CERAMIC SINTERED BODY

🔍 Country: **JP** Japan

🔍 Kind: **A**

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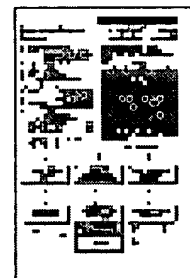
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🔍 Abstract:

PURPOSE: To enable debinding treatment at a rather low temp. on a ceramic molded body containing a binder and a ceramic powder which is reactive with steam, in a short time without using steam by debinding the molded body in nonoxidative atmospheric gas containing carbonic acid gas.

CONSTITUTION: In the debinding method of a ceramic molded body containing a binder and a ceramic powder which is reactive with steam in a nonoxidative atmosphere, carbonic acid gas is added to the nonoxidative atmospheric gas. Conventionally, debinding treatment is performed by adding a minute amt. of steam to an atmospheric gas to change carbon remaining in a ceramic molded body or in a furnace into carbon monoxide and to remove the carbon monoxide. However, when a nonoxide ceramic material such as AlN having high reactivity with steam is to be subjected to debinding, the nonoxide ceramic material is oxidized with steam. This causes intrusion of oxide in the sintered body or prevents smooth sintering, and therefore, a dense sintered body is not obtd.

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